

DRILLING PLAN

SCHLOSSER WN FEDERAL 1E
NESW 1795 FSL, 1575 FWL, 10-27-11
San Juan County, New Mexico

1. SURFACE FORMATION: Tertiary - Nacimiento
2. GEOLOGICAL MARKERS:

Kirtland	1412'	Upper Mancos	4667'
Fruitland	1765'	Gallup	5565'
Pictured Cliffs	1972'	Lower Mancos	6103'
Lewis	2057'	Greenhorn	6352'
Chacra	2912'	Graneros	6417'
Cliff House	3520'	Dakota	6537'
Point Lookout	4382'	Morrison	6765'
3. ANTICIPATED MINERAL BEARING FORMATIONS:

Fruitland	(Poss. Gas)
Pictured Cliffs	(Poss. Gas)
Cliff House	(Poss. Gas)
Gallup	(Poss. Gas)
Dakota	(Poss. Oil/Gas)
4. CASING PROGRAM:

Surface to	500' 8-5/8" 24# K55 ST&C,
Production to	T.D. 4-1/2" 10.5# K55, ST&C
5. CONTROL EQUIPMENT: Blowout Preventor - Ram Type, hydraulic operated
Rams - Two: One blind ram and one pipe ram.
Series - 900 (3000#WP, 6000#T)
Manufacturer - Cameron or Shaffer
Pressure test at 1000 psi prior to drilling out of casing string.
Operational checks to be made daily and on trips.
Sketch attached.
6. DRILLING FLUIDS:

0'	to	500'	Gel and lime to drill surface hole and set casing.
500'	to	4000'	Treated water to support hole.
4000'	to	T.D.	Low solids non-dispersed 9.0-9.1# gal., 38-45 vis., WL 8 cc or less.
7. AUXILIARY EQUIPMENT: Kelly cock
Sub on floor with full opening valve for use in drill pipe when Kelly is not in the string.
8. TESTING, LOGGING AND CORING: At this time no drill stem tests or cores are planned. However, hole conditions and information obtained while drilling may alter these plans.
9. ABNORMAL PRESSURES, TEMPERATURES, POTENTIAL HAZARDS: There are no abnormal pressures, temperatures or potential hazards in the area. The maximum anticipated pressure is 3600 psi. Weight material will be maintained on location at all times.
10. STARTING DATE - COMPLETION: Dirtwork and road work for this location will require 2 or 3 days. Moving in and rigging up 2 to 3 days. Drilling and completion will require approximately 30 days, for a total of 36 days. In the event of bad weather or other delays this time could be considerably extended.

NTL-6 indicates a minimum of 30 days are required to obtain District Engineer's approval, in which case operations on this well could not be commenced until approximately April 20, 1980. Depending upon rig availability, equipment, weather, etc., this starting date could be extended.